



An R suffix indicates those wells equipped with a digital recorder

TOWN WELL NUMBER	AQUIFER MATERIAL	DEPTH (ft)
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KENT COUNTY		
Coventry 342	Sand and gravel	13.1
Coventry 411	Sand and gravel	26.0
Coventry 466	Till	17.8
Warwick 59	Till	27.0
West Greenwich 181	Sand and gravel	18.5
West Greenwich 206	Till	9.6
NEWPORT COUNTY		
Little Compton 142	Till	23.1
Potomouth 551	Till	51.9
Tiverton 274	Till	13.2
PROVIDENCE COUNTY		
Burnhillville 187	Sand and gravel	19.8
Burnhillville 395	Till	17.7
Burnhillville 396	Till	17.4
Burnhillville 397	Till	25.6
Burnhillville 398	Till	15.5
Cranston 439	Till	23.1
Cumberland 265	Sand and gravel	20.0
Foster 40	Till	15.4
Foster 290	Till	15.4
Lincoln 84	Sand and gravel	107.0
North Smithfield 21	Sand and gravel	16.0
Pawtucket 136	Gravel	43.0
Providence 48	Sand and gravel	124.0
WASHINGTON COUNTY		
Charlestown 18	Sand and clay	32.0
Charlestown 586	Till	14.3
Charlestown 587	Till	12.5
Exeter 6	Sand and gravel	10.0
Exeter 158	Till	18.3
Exeter 238	Till	14.4
Exeter 275	Till	23.9
Exeter 478	Sand and gravel	40.0
Exeter 554	Sand and gravel	25.1
Hopkinton 67	Till	22.9
New Shoreham 258	Till	19.0
North Kingstown 255	Sand and gravel	14.0
Richmond 417	Sand and gravel	40.0
Richmond 460	Sand and gravel	54.0
Richmond 785	Sand and gravel	40.1
South Kingstown 6	Sand and gravel	34.0
South Kingstown 515	Sand and gravel	30.0
Westley 322	Sand and gravel	16.0

Observation-well data can be used to investigate the following topics. Individual observation wells do not necessarily provide all the information needed to investigate the following topics, but are commonly used in conjunction with other nearby observation wells.

Locating and designing of septic systems

Evaluating landfills and other disposal sites

Developing landscape plans to avoid waterlogged land during construction and excavation

Determining the need for dewatering (pumping) of construction sites

Preventing exposure of underground wooden pilings to air that causes rot and makes buildings structurally unsound

Monitoring induced infiltration of surface water due to pumping of ground water

Locating, monitoring, and cleaning up ground-water contamination plumes

Determining the assimilative capacity of ground water

Monitoring saltwater intrusion

Estimating maximum ground-water levels in areas of proposed septic-system installations

Calibrating ground-water-flow models

Monitoring ground-water-level stage duration

Determining short-term and long-term ground-water-level trends

Monitoring for depletion of ground-water storage

Determining public and private supply well depths

Augmenting surface-water supply from wells (p

Determining ground-water and surface-water

(rivers, ponds, reservoirs, and lakes) interaction

Assessing the effects of evapotranspiration and seasonal influences on ground-water levels

The U.S. Geological Survey (USGS) maintains a network of 40 observation wells (table 1) in cooperation with the Rhode Island Water Resources Board and the Rhode Island Department of Environmental Management. Water-level measurements are made monthly at each well and continuously at four of the wells equipped with digital recorders. Measurements of depth to the water, in feet below the land surface at each well, are stored in a computer data base and referenced by the town in which the well is located.

Observation-well data are published annually in a report series entitled "Water Resources Data - Massachusetts and Rhode Island." Annual water-resources data reports beginning with water year 1990, also are available in limited numbers on Compact Disk - Read Only Memory (CD-ROM). These reports and may be obtained by contacting:

U.S. Geological Survey
Earth Science Information Center, Open-File Reports Section
Box 25286, MS517, Denver Federal Center
Denver, CO 80225

Observation-well data also are published monthly in "Current Water Resources Conditions in Central New England." These reports and this map can be obtained by contacting either (or):

Information Officer,
U.S. Geological Survey
28 Lord Rd., Suite 280
Marlborough, MA 01752
508-490-5058

Chief,
Rhode Island Subdistrict
275 Promenade, Suite 150
Providence, R.I. 02908
401-331-9050

Only local well locations and data from the USGS national network of observation wells are shown on this map. Additional well information for the local network of observation wells - including water levels, date of installation, period of record, instrumentation, construction data, and land-surface datum - are found in the annual water-resources data reports.

Spatial data for this map - well locations, well names and numbers, and State, county and town boundaries - are stored in a computerized Geographic Information System (GIS). This map was produced by use of a GIS.

The Ground-Water Site Inventory Data Base of the National Water Data Storage and Retrieval System (WATSTORE) contains computerized inventory data for more than 900,000 wells, springs, and other ground-water sites for all the States and some territories. For information contact:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, Virginia 22092

Gadoury, R.A., Socolow, R.S., Girouard, G.G., and Ramsbey, L.R., 1994, Water resources data - Massachusetts and Rhode Island - water year 1993: U.S. Geological Survey Water-Data Report MA-RI-93-1, 266 p.